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## IN THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (Canceled).
- 2. (Canceled).
- 3. (Canceled).
- 4. (Previously presented) An apparatus, comprising:

a plurality of source followers, each of the plurality of source followers comprising a pull-down transistor having a source, a drain, a gate, and a bulk terminal;

a plurality of pull-up transistors, each of the plurality of pull-up transistors having a source, a drain, and a gate, wherein the drain of each of the plurality of pull-up transistors is coupled to the source of a pull-down transistor of the plurality of source followers, to output a plurality of differential signals via the drains of the plurality of pull-up transistors;

a first current source coupled to the sources of the plurality of pull-up

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transistors, wherein the first current source is powered by a first voltage of at least about 1.624V to 2.725V;

an operational amplifier, coupled to the first current source, to drive the first current source; and

a feedback path coupled between the drains of the plurality of pull-up transistors and an input of the operational amplifier.

## 5. (Previously presented) An apparatus, comprising:

a plurality of source followers, each of the plurality of source followers comprising a pull-down transistor having a source, a drain, a gate, and a bulk terminal;

a plurality of pull-up transistors, each of the plurality of pull-up transistors having a source, a drain, and a gate, wherein the drain of each of the plurality of pull-up transistors is coupled to the source of a pull-down transistor of the plurality of source followers, to output a plurality of differential signals via the drains of the plurality of pull-up transistors;

a first current source coupled to the sources of the plurality of pull-up transistors;

an operational amplifier, coupled to the first current source, to drive the first current source; and

a feedback path coupled between the drains of the plurality of pull-up transistors and an input of the operational amplifier, wherein the feedback path

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further comprises a sensing circuit, the sensing circuit includes a plurality of transistors biased by a predetermined voltage.

- 6. (Previously presented) The apparatus of claim 5, wherein the first current source is powered by a first voltage of at least about 1.624V to 2.725V.
- 7. (Previously presented) An apparatus, comprising:

a plurality of source followers, each of the plurality of source followers comprising a pull-down transistor having a source, a drain, a gate, and a bulk terminal;

a plurality of pull-up transistors, each of the plurality of pull-up transistors having a source, a drain, and a gate, wherein the drain of each of the plurality of pull-up transistors is coupled to the source of a pull-down transistor of the plurality of source followers, to output a plurality of differential signals via the drains of the plurality of pull-up transistors;

a low swing differential pre-driver, coupled to the gates of the pull-down transistors of the plurality of source followers, to drive the pull-down transistors; and

a plurality of inverters, each of the plurality of inverters being coupled to the gate of each of the plurality of pull-up transistors to amplify an input signal and to apply the amplified signal to the gate of the corresponding pull-up transistor, wherein the plurality of inverters are powered by a second voltage approximately

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8. (Previously presented) The apparatus of claim 7,

a plurality of source followers, each of the plurality of source followers comprising a pull-down transistor having a source, a drain, a gate, and a bulk terminal;

a plurality of pull-up transistors, each of the plurality of pull-up transistors having a source, a drain, and a gate, wherein the drain of each of the plurality of pull-up transistors is coupled to the source of a pull-down transistor of the plurality of source followers, to output a plurality of differential signals via the drains of the plurality of pull-up transistors; and

a low swing differential pre-driver, coupled to the gates of the pull-down transistors of the plurality of source followers, to drive the pull-down transistors, wherein the low swing differential pre-driver comprises:

a second current source;

a current sink including a transistor and a resistor, the transistor being coupled to the resistor in parallel; and

a load, coupled between the second current source and the current sink, to output a plurality of low swing differential signals, wherein each of the plurality of low swing differential signals drives the gate of the pull-down transistor of one of the plurality of source followers.

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- 9. (Previously presented) The apparatus of claim 8, further comprising a plurality of inverters, each of the plurality of inverters being coupled to the gate of each of the plurality of pull-up transistors to amplify an input signal and to apply the amplified signal to the gate of the corresponding pull-up transistor, wherein the plurality of inverters are powered by a second voltage approximately between 1.1V and 1.3V.
- 10. (Previously presented) The apparatus of claim 7, further comprising:

  a network interface including the plurality of pull-up transistors and the plurality of source followers; and

a plurality of transmission lines coupled to the network interface, the plurality of transmission lines being driven by the plurality of low voltage differential signals.

- 11. (Original) The apparatus of claim 10, further comprising a network component coupled to the network interface via the plurality of transmission lines, wherein the network component includes a storage device.
- 12. (Previously presented) A method comprising:

  providing a plurality of input signals to a plurality of pull-up transistors;

  coupling each of the plurality of pull-up transistors to one of a plurality of

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pull-down transistors;

driving the plurality of pull-down transistors with a plurality of differential low swing signals to output a plurality of low voltage differential signals in response to the plurality of input signals; and

generating the plurality of differential low swing signals using a low swing differential pre-driver, wherein generating the plurality of differential low swing signals using the low swing differential pre-driver comprises:

supplying current to a load from a second current source;

sinking the current from the load via a transistor and a resistor, the transistor being coupled to the resistor in parallel; and

outputting a plurality of low swing differential signals via the load to the gates of the plurality of pull-down transistors.

- 13. (Previously presented) The method of claim 12, further comprising reducing body effect on the plurality of pull-down transistors.
- 14. (Previously presented) The method of claim 12, further comprising:

  supplying current to the plurality of pull-up transistors from a first current source;

sensing one of the plurality of low voltage differential signals to produce a feedback signal; and

driving the first current source with an operational amplifier in response to

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the feedback signal.

- 15. (Canceled).
- 16. (Canceled).
- 17. (Currently amended) A method, comprising providing a plurality of input signals to a plurality of pull-up transistors; coupling each of the plurality of pull-up transistors to one of a plurality of pull-down transistors;

driving the plurality of pull-down transistors with a plurality of differential low swing signals to output a plurality of low voltage differential signals in response to the plurality of input signals; and

amplifying the plurality of input voltages using a plurality of inverters, each of the plurality of inverters being coupled to a distinct one of the plurality of pull-up transistors; and

powering the plurality of inverters by a voltage approximately between 1.1V and 1.3V.

18. (Previously presented) An apparatus comprising:
means for providing a plurality of input signals to a plurality of pull-up transistors;

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means for coupling each of the plurality of pull-up transistors to one of a plurality of pull-down transistors;

means for driving the plurality of pull-down transistors with a plurality of differential low swing signals to output a plurality of low voltage differential signals in response to the plurality of input signals;

means for generating the plurality of differential low swing signals using a low swing differential pre-driver, wherein the means for generating the plurality of differential low swing signals using the low swing differential pre-driver comprises:

means for supplying current to a load from a second current source;

means for sinking the current from the load via a transistor and a resistor, the transistor being coupled to the resistor in parallel; and

means for outputting a plurality of low swing differential signals via the load to the gates of the plurality of pull-down transistors.

- 19. (Canceled).
- 20. (Canceled).

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